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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/000,394	11/30/2001	Petri Helio	460-010714-US(PAR)	9029
2512	7590 11/03/2004		EXAM	INER
PERMAN &	& GREEN	SHARMA, SUJATHA R		
425 POST ROAD FAIRFIELD, CT 06824			ART UNIT	PAPER NUMBER
· · · · · · · · · · · · · · · · · · ·			2684	
			DATE MAILED: 11/03/2004	1

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/000,394	HELIO ET AL.				
Office Action Summary	Examiner	Art Unit				
	Sujatha Sharma	2684				
The MAILING DATE of this communication Period for Reply	n appears on the cover sheet with	the correspondence address				
A SHORTENED STATUTORY PERIOD FOR R THE MAILING DATE OF THIS COMMUNICATI - Extensions of time may be available under the provisions of 37 C after SIX (6) MONTHS from the mailing date of this communicatic - If the period for reply specified above is less than thirty (30) days - If NO period for reply is specified above, the maximum statutory i - Failure to reply within the set or extended period for reply will, by Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	ON. FR 1.136(a). In no event, however, may a repon. , a reply within the statutory minimum of thirty (period will apply and will expire SIX (6) MONTH statute, cause the application to become ABA	ly be timely filed 30) days will be considered timely. IS from the mailing date of this communication. NDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on	30 November 2001.					
2a) This action is FINAL . 2b) ⊠	This action is FINAL . 2b)⊠ This action is non-final.					
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims	•					
4) Claim(s) <u>1-20</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-20</u> is/are rejected.						
7) Claim(s) is/are objected to.		•				
8) Claim(s) are subject to restriction a	and/or election requirement.	•				
Application Papers						
9)☐ The specification is objected to by the Exa	miner.					
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to	o the drawing(s) be held in abeyance	e. See 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)☐ The oath or declaration is objected to by the	ne Examiner. Note the attached (Office Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for for	reign priority under 35 U.S.C. § 1	19(a)-(d) or (f).				
a) All b) Some * c) None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority docur	• • • • • • • • • • • • • • • • • • • •					
3. Copies of the certified copies of the	•	eceived in this National Stage				
application from the International Bu	. ,,					
* See the attached detailed Office action for a	a list of the certified copies not re	ceived.				
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Sun					
 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-94) 3) ☑ Information Disclosure Statement(s) (PTO-1449 or PTO/S 		Mail Date rmal Patent Application (PTO-152)				
Paper No(s)/Mail Date <u>2/08/02,5/17/04</u> .	6) Other:					

Application/Control Number: 10/000,394

Art Unit: 2684

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims is rejected under 35 U.S.C. 102(b) as being anticipated by Ford [EP 475 705 A2].

Regarding claims 1,8,10,19 Ford discloses a method of aligning the frequency response of a variable band-pass filter in a radio receiver by using a reference frequency. Ford further discloses a method of changing the frequency of said atleast one reference signal (see col. 1, lines 1-43). Nick further discloses a method further comprising the steps of measuring the strength of the output signal of the filter and determining, on the basis of the measurement on the strength of the output signal Of the tilter, the location of the pass band of said filter (see col. 7, lines 2-36, col. 8, lines 38-49).

Regarding claims 2,11 Ford further discloses a method wherein, on the basis of measurements, at least one maximum point is searched for the strength of the output signal. See col. 7, lines 2-36.

Regarding claims 3,4,12,13 Ford further discloses a method wherein the frequency of said reference signal is changed, until at least one maximum point is found, wherein the

Application/Control Number: 10/000,394

Art Unit: 2684

frequency of said reference signal at said maximum point indicates the location of the pass band of the filter. See col. 7, line 2 - col. 8, line 49.

Regarding claims 5,16 Ford further discloses a method wherein the tuning of the filter is performed automatically. See col. 2, lines 6-9.

Regarding claims 6,17 Ford further discloses a method wherein the tuning of the filter is performed at intervals. See col. 8, line 50 – col. 9, line 2 (where the tuning is performed whenever required and so at some intervals for example depending on the aging of filter).

Regarding claims 7,9,18,20 Ford further discloses a method wherein said filter used is a complex filter. See col. 7, lines 6-12.

Regarding claim 14, Ford further discloses a method wherein the means for changing the lime constant of said at least one filter comprise an adjustable capacitor. See col. 1, lines 17-25.

Regarding claim 15, Ford further discloses a method wherein the means for changing the time constant of said at least one filter comprise at least one capacitor, and selection means for connecting said at least one capacitor in a disconnectable manner to said time constant of the filter. See Fig. 4.

Page 4

Application/Control Number: 10/000,394

Art Unit: 2684

Conclusion

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Holden [US 6,266,522] Apparatus and methods for tuning bandpass filters

Pugel [US 6,553,216] RF tunable filter arrangement with tunable image trap

Hernandez [US 6,097,269] Electrically tunable band pass filter with symmetrical low side and

high side protection

Shirakawa [US 5,758,276] Double super heterodyne receiver with low-pass and high-pass

filters controlled by respective switching devices

Porambo [US 5,280,638] RF filter self alignment for multiband radio receiver

Thomas [US 5,065,453] Electrically tunable band-pass filter

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sujatha Sharma whose telephone number is 703-305-5298. The examiner can normally be reached on Mon-Fri 7.30am - 4.00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nay Maung can be reached on 703-308-7745. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Application/Control Number: 10/000,394

Art Unit: 2684

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Sujatha Sharma October 20, 2004

NAY MAUNG SUPERVISORY PATENT EXAMINER Page 5